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## NEW BOOKS

BATDORF, J. W. *Menace of the I. W. W.* (New York: Anti-Socialist Press. 1917. Pp. 32. 10c.)

MACDONALD, J. R. *Socialism after the war.* (London: National Labor Press. 1918. Pp. 80. 1s.)

SMITH-GORDON, L. *History of the coöperative movement in Ireland.* (London: King. 1917. 7s. 6d.)

*General rules for a coöperative society.* (Kalamazoo, Mich.: Kalamazoo Coöperative Society. 1917. Pp. 43.)

## Statistics and Its Methods

## NEW BOOKS

BAILEY, W. B. and CUMMINGS, J. *Statistics.* (Chicago: McClurg. 1917. Pp. 153. 60c.)

To be reviewed.

COPELAND, M. T., editor. *Business statistics.* Harvard business studies. vol. III. (Cambridge: Harvard University Press. 1917. Pp. xii, 696. \$3.75.)

Though an independent and original discussion and analysis of this subject is greatly needed, this compilation of articles is serviceable. Dr. Copeland defines business statistics as "numerical statements of facts, exclusive of financial accounts, which are used in business administration. These statistics are of two general classes: (1) external statistics, generally publicly available, which indicate the general trend of business and market conditions, and (2) internal statistics, which are concerned with the private operations of an individual business establishment." The purpose and value of the volume is best shown by an enumeration of some of the titles of articles reprinted: Statistical methods, by the editor; Statistical units, by G. P. Watkins; Index numbers, by Wesley C. Mitchell; Statistical indices of business conditions, by the editor; Current theory concerning business cycles, by Wesley C. Mitchell; Government crop reports, by the Bureau of Crop Estimates, U. S. Department of Agriculture; Current sources of information in produce markets, by Bruce D. Mudgett. Under Sales and Advertising Statistics are: Considerations of the market, by A. W. Shaw; Why and how a manufacturer should make trade investigations, by C. C. Parlin; Finding the facts that count, by F. G. Fredericks and F. M. Feiker; Guiding salesmen by map and tack, by W. A. Waterbury; Graphs for the sales manager, by Stanley C. Tarrant; Advertising and sales department records, by Edward S. Babcox; Analysis of newspaper circulation, by E. G. Pratt; Record of advertising results, by Thomas P. Comford. And under Factory Statistics are Checking losses in the storeroom, by Wilford G. Astle; The perpetual inventory in practical stores operation, by J. B. Green; The automatic rating of workmen; Hiring and firing, by Magnus W. Alexander; A graphical daily balance in manufacture, by H. L. Gantt; Use of

production charts in a machine shop, by E. H. Schell; and Methods of cost finding in cotton mills, by William G. Nichols. Under Statistics for the Chief Executive are: Statistical reports of the Utah Consolidated Mining Company, by W. H. Charlton; Railway accounts and statistics, by A. A. Goodchild; Costs and results, by William J. Cunningham; Statistical units used in analysis of electric railway accounts, by James A. Emery; and The function of statistics in the telephone business, by Walter S. Gifford.

DUNCAN, B. S. and DUKE, E. *Infant mortality. Result of a field study in Manchester, N. H., based on births in one year.* Infant mortality series no. 6. Bureau publication no. 20. (Washington: Children's Bureau. 1917. Pp. 134.)

ELDETON, W. P. *Frequency curves and correlation.* (London: Institute of Actuaries. 1918. 1s. 6d.)

MOORE, H. L. *Forecasting the yield and the price of cotton.* (New York: Macmillan. 1917. Pp. vi, 173. \$2.50.)

To be reviewed.

SECRIST, H. *An introduction to statistical methods.* (New York: Macmillan. Pp. viii, 482. \$2.)

To be reviewed.

WARNE, F. J. *Elementary course in cartography. Twenty lessons—seventy charts.* (Washington: The author, Southern Bldg. 1917.)

WARNE, F. J. *Warne's book of charts; a special feature of Warne's elementary course in cartography.* (Washington: The author, Southern Bldg. 1917. 100 charts. \$10.)

This series of sheets, twelve by sixteen inches, constitute lessons for those who wish to learn the art of graphic chart making. Instruction is carefully given in topical form with full directions as to the kind of paper to use, determination of scales, arrangement of tables, and the merits of the different kinds of diagrams. There is little extended discussion in regard to the application of charts to different kinds of business or statistical problems such as are found in Brinton's *Graphic Methods for Presenting Facts*. Greater emphasis is laid upon the technical processes involved. The author is not insistent upon his own methods, but is definite on all the essential points and gives reasons for the variations of practice. Defective charts are included in the criticisms. Dr. Warne directs the student's attention to the need of understanding statistical interpretation, as, for example, the use of percentage, ratio, and average. For extensive use the price of the series is prohibitive for many. The author would do a useful service in publishing his instructions in a cheaper form, accessible to a larger number of students and draftsmen.

WOODWARD, F. E. *A graphic survey of book publication, 1890-1916.* (Washington: Bureau of Education. 1917. Pp. 26.)

*Agricultural statistics of Ireland with detailed report for the year*

1915. Department of Agriculture and Technical Instruction for Ireland. (Dublin: His Majesty's Stationery Office. 1917. Pp. 111.)

*Birth statistics for the registration area of the United States, 1915. First annual report.* Bureau of the Census. (Washington: Supt. Docs. 1917. 20c.)

*Financial statistics of cities having a population of over 30,000, 1916.* (Washington: Supt. Docs. 1917. Pp. 375.)

*General statistics of cities: 1916. Including statistics of parks, playgrounds, museums and art galleries, zoölogical collections, music and entertainments, swimming pools and bathing beaches, and other features of the recreation service.* (Washington: Bureau of the Census. 1917. Pp. 88.)

*Statistics as to education, hospitals and charities, and law and crime, for the year 1915.* Social statistics bulletin no. 9. (Melbourne: Commonwealth Bureau of Census and Statistics. 1917. Pp. 84.)

*Summary of Commonwealth production statistics for the years 1905-6 to 1915-6.* Production bulletin no. 10. (Melbourne: Commonwealth Bureau of Census and Statistics. 1917. Pp. 168.)